

APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

ecoRI

1 GAATTCAACT TCTCCATACT TTGGATAAGG AAATAACAGAC ATGAAAAATTIC TCATTGCTGA GTTGTATTGAGCTT GAGCTTGCCC AAAAGAGAAG AGAGTCGAAT
CTTAAGTTGA AGAGGTATGA AACCTATTCC TTTATGCTG TACTTTTAG AGTAACGACT CAAACAATAAA TTCCGAACGGG TTTTTCTCT TCTCAGCTTA

101 GAACTGTGTG CGCAGGTAGA AGCCTTGGAG ATTATCGTCA CTGCAATATG TCGCAATATG GCGCAAAATG ACCAACAGCG GTTGATTGAT CAGGTAGAGG
CTTGACACAC CGGTCCATCT TCGAAACCTC TAATAGCAGT GACGTTACGA AGCGTTACAC CGCGTTTAC TGTTGTGC CAACTAACTA GTCCCATCTCC

201 GGGCGCTGTA CGAGGAAAG CCCGATGCCA GCATTCTGA CGACGATACT GAGCTGCTGC GCGATTACGT AAAGAAGTTA TTGAACCAC CTCGTCAGTA
CCCCGGACAT GCTCCATTTC GGGCTACGGT CGTAAGGACT GCTGCTATGC CTCGACGAGC CGCTAATGCA TTTCCTCAAT AACTTCGTTAG GAGCAGTCAT

301 AAAAGTTAAT CTTTCAAAAC GCTGTCAAA AGTTGTACG GCGAGACTT ATAGTCGCTT TGTGTGTATT TTTTAATGTA TTGTAACTA GTACGCAAGT
TTTCAATTAA GAAAAGTTGT CGACAGTATT TCAACAGTGC CGGCTCTGA TATCAGCGAA ACAAAATAAA AAAATTACAT AAACATTGAT CATGCGTTCA

Trp SD xbaI SII SD

401 TCACCGTAAA AGGGTATCTA GAGGTGAGG TGATTAT
AGTGCATTTC TCCCATAAGAT CTCCAACCTCC ACTAAAA
1

486 ATT GCT ACA AAT GCC TAT GCA (SEQ ID NO: 13)
TAA CGA TGT TTA CGG ATA CGT
17 Ile Ala Thr Asn Ala Tyr Ala (SEQ ID NO: 14)

FIG. 1

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APPROVED	O.G. FIG.
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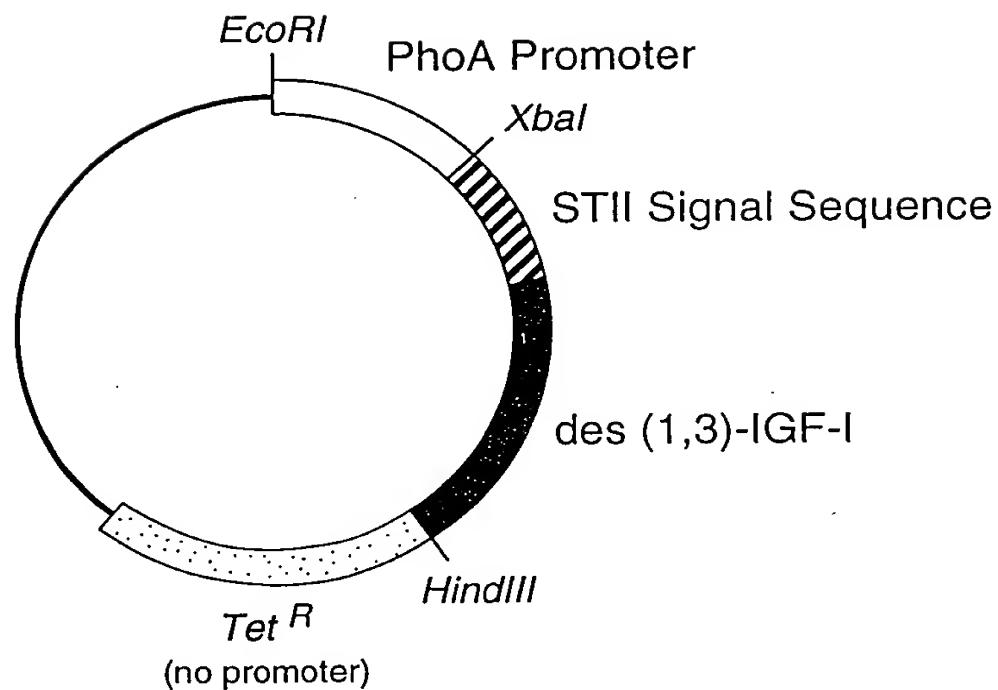


FIG. 2

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APPROVED O.G. FIG.	CLASS SUBCLASS
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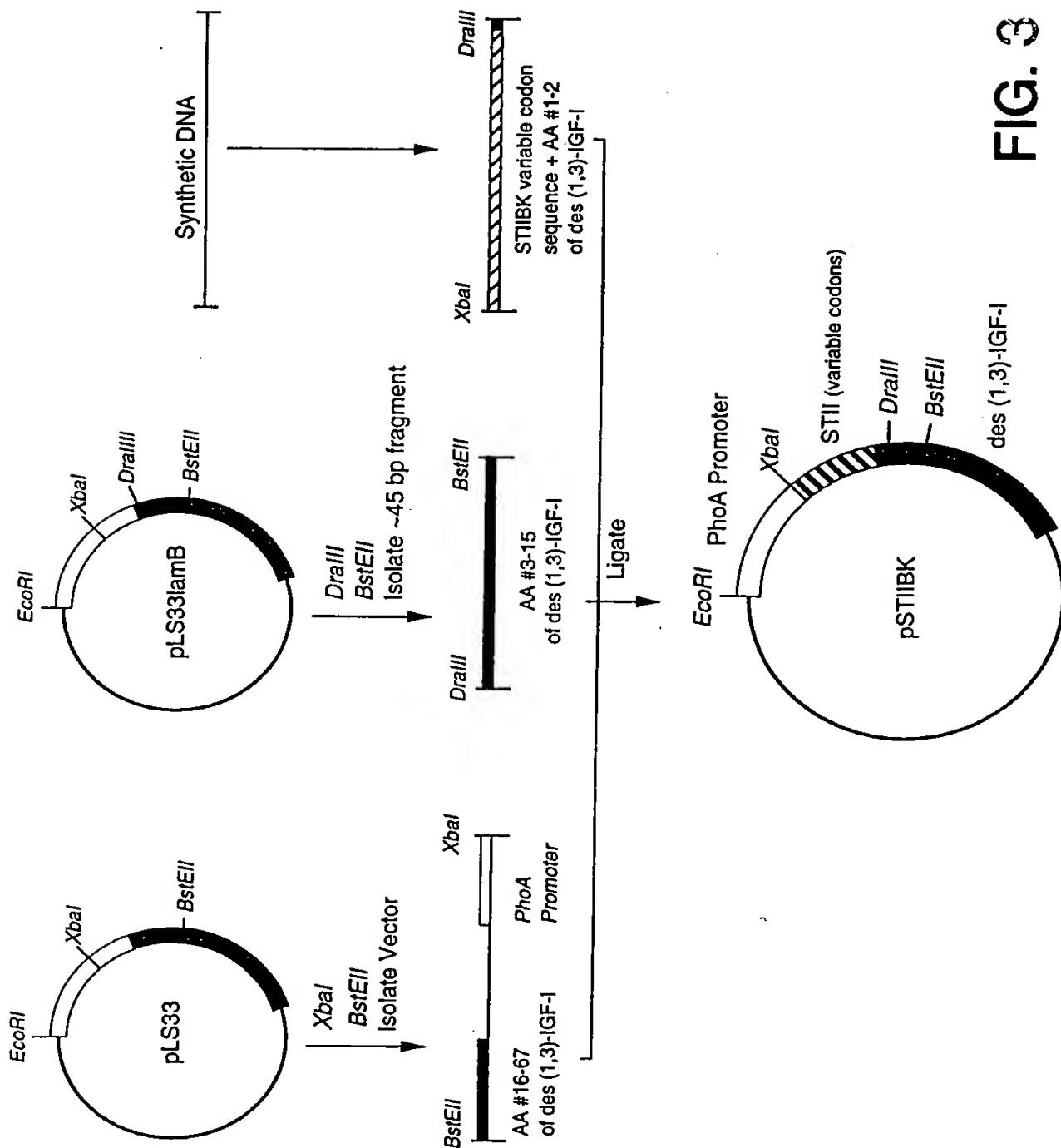
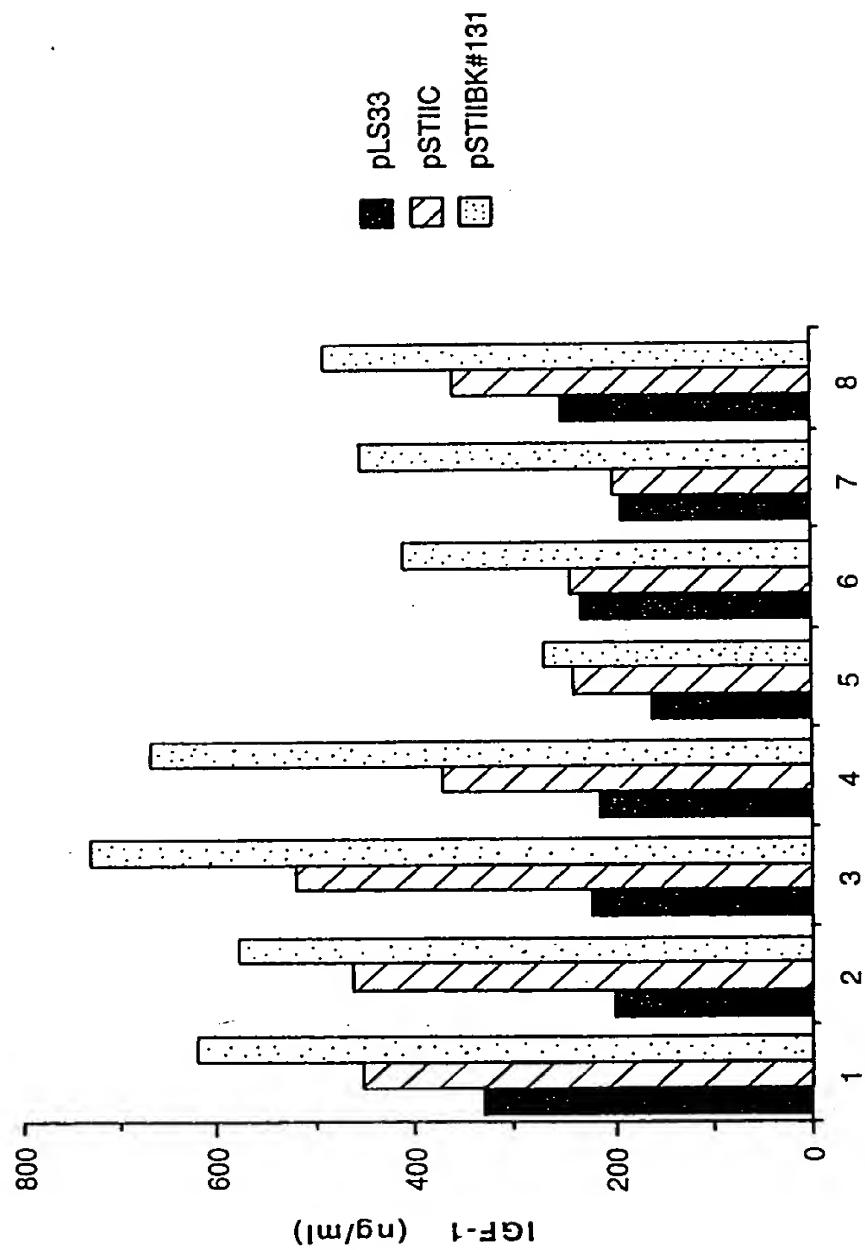


FIG. 3

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Experiment

FIG. 4

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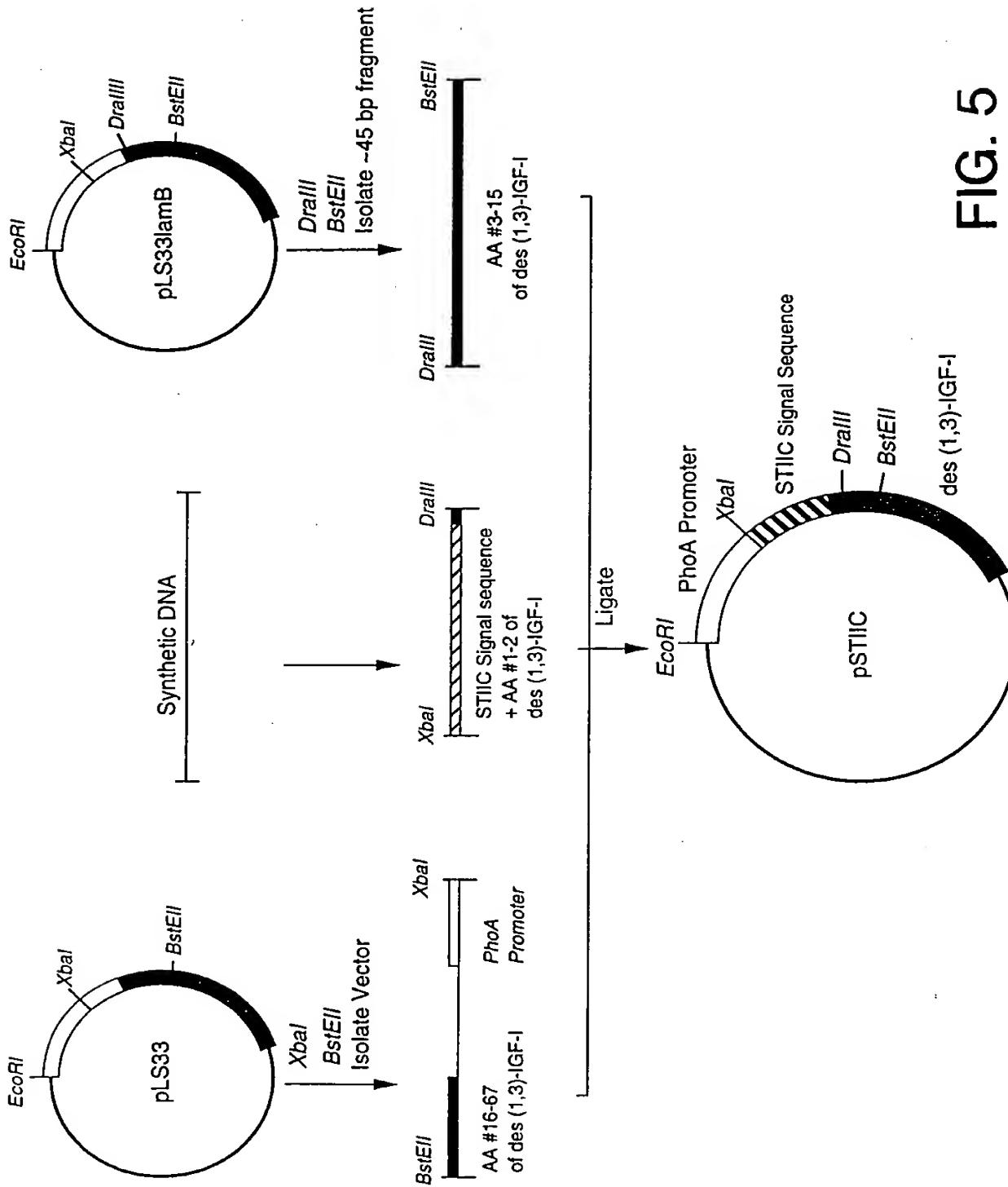
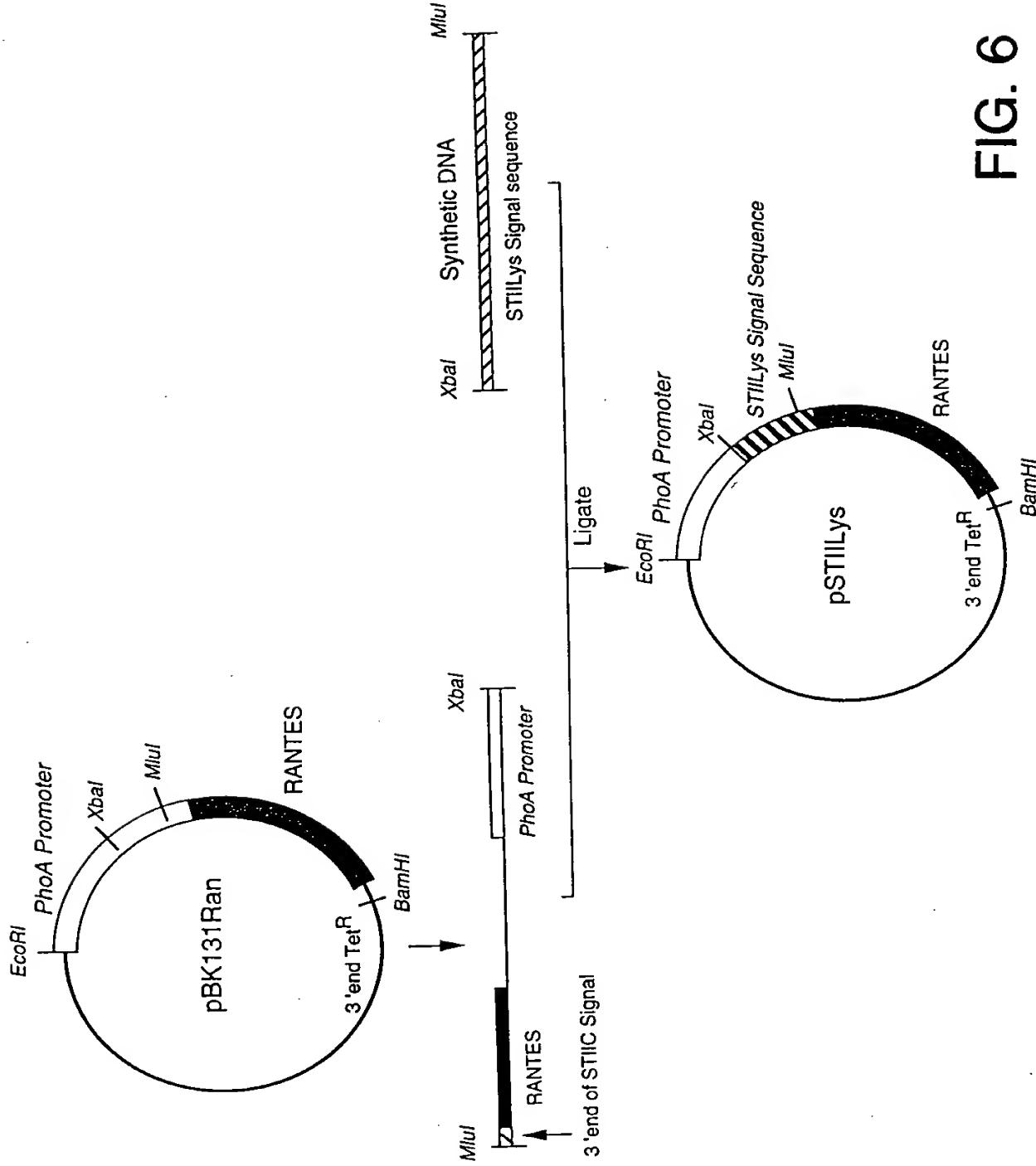


FIG. 5

APPROVED	O.G. FIG.
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APPROVED	O.G. FIG.
BY	CLASS
DRAFTSMAN	SUBCLASS

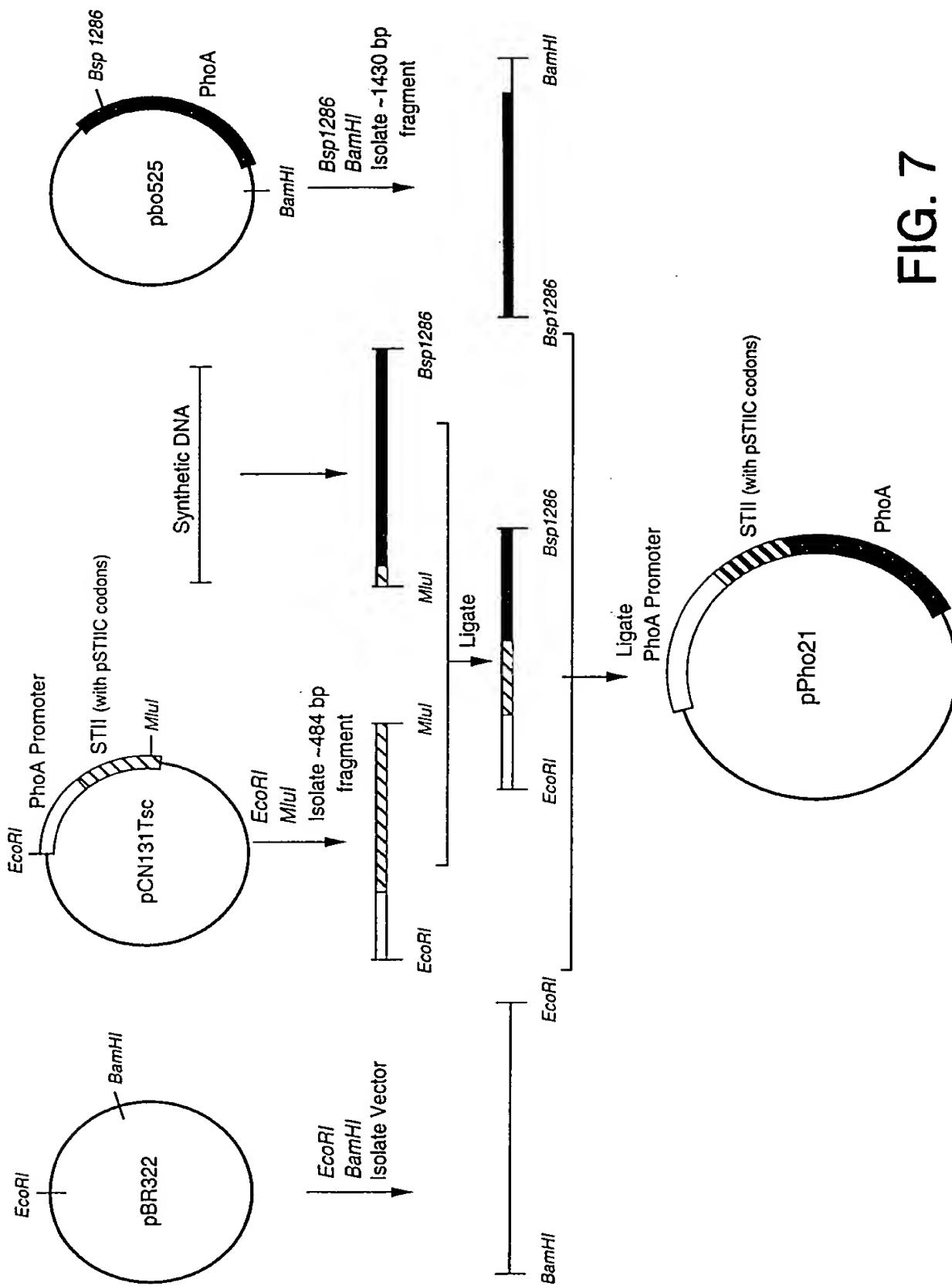


FIG. 7

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APPROVED	O.G. FIG.
By	CLASS SUBCLASS
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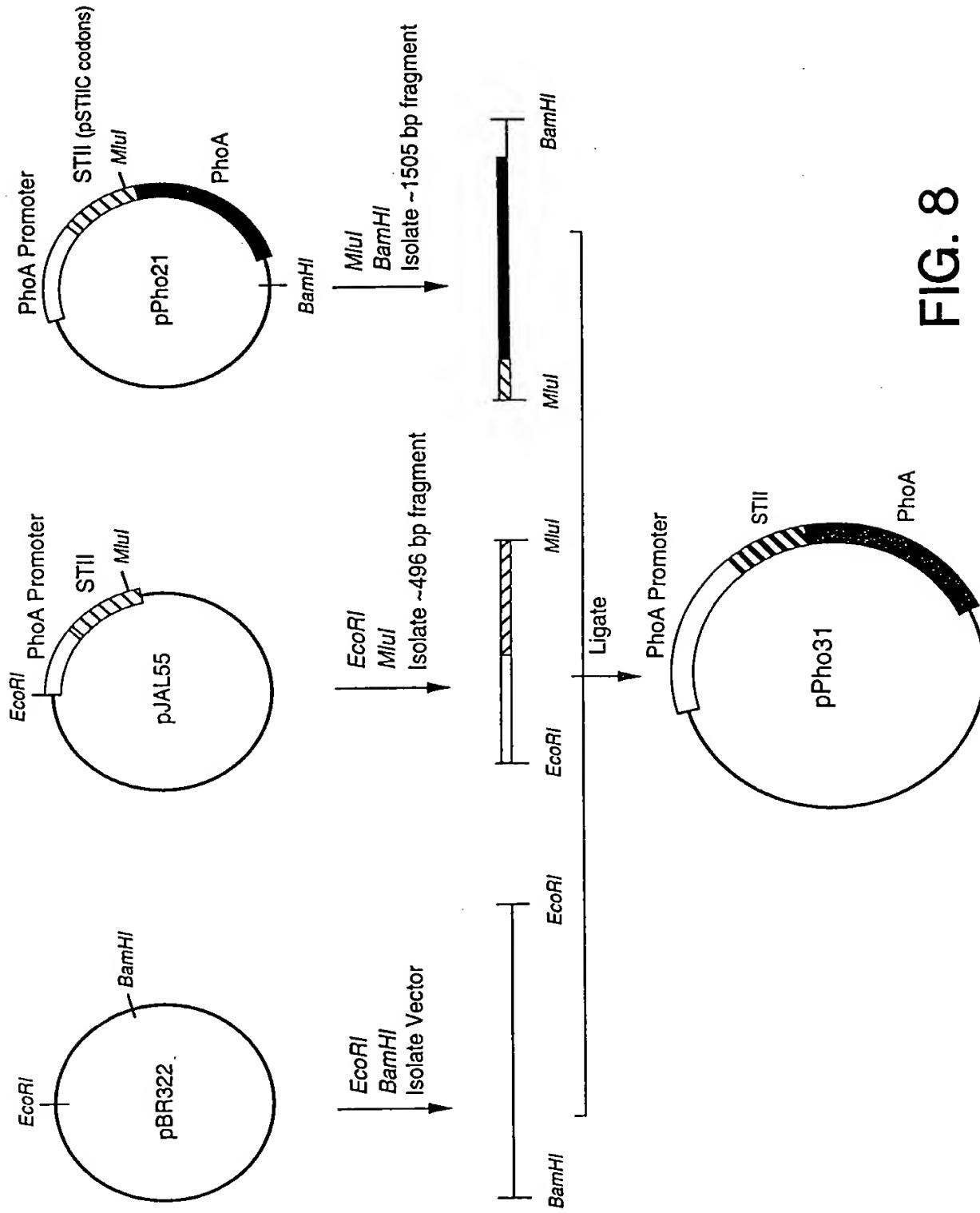
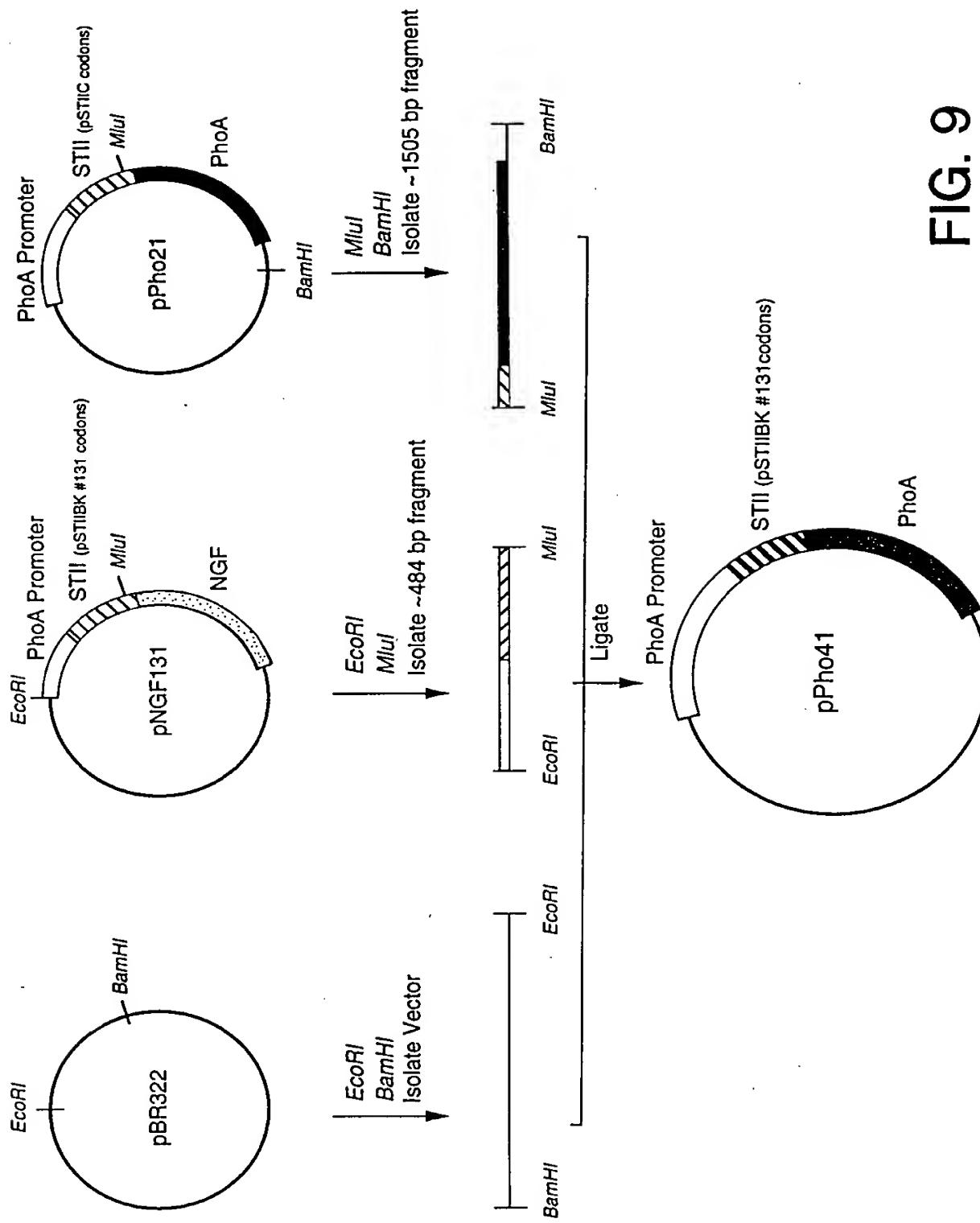


FIG. 8

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APPROVED	O. G. FIG.
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APPROVED	O.G. FIG.
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DRAFTSMAN	

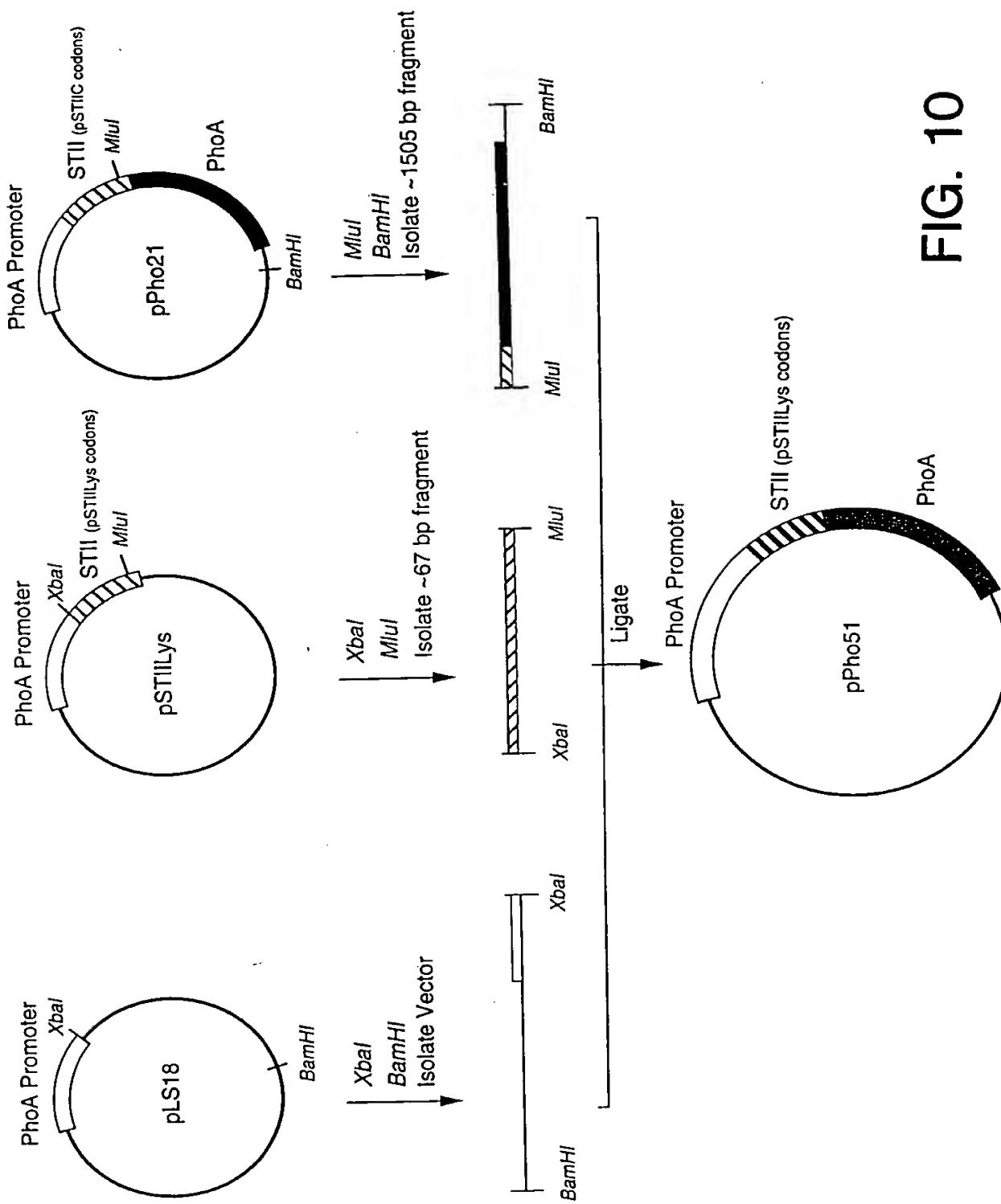


FIG. 10

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APPROVED	O.G. FIG.
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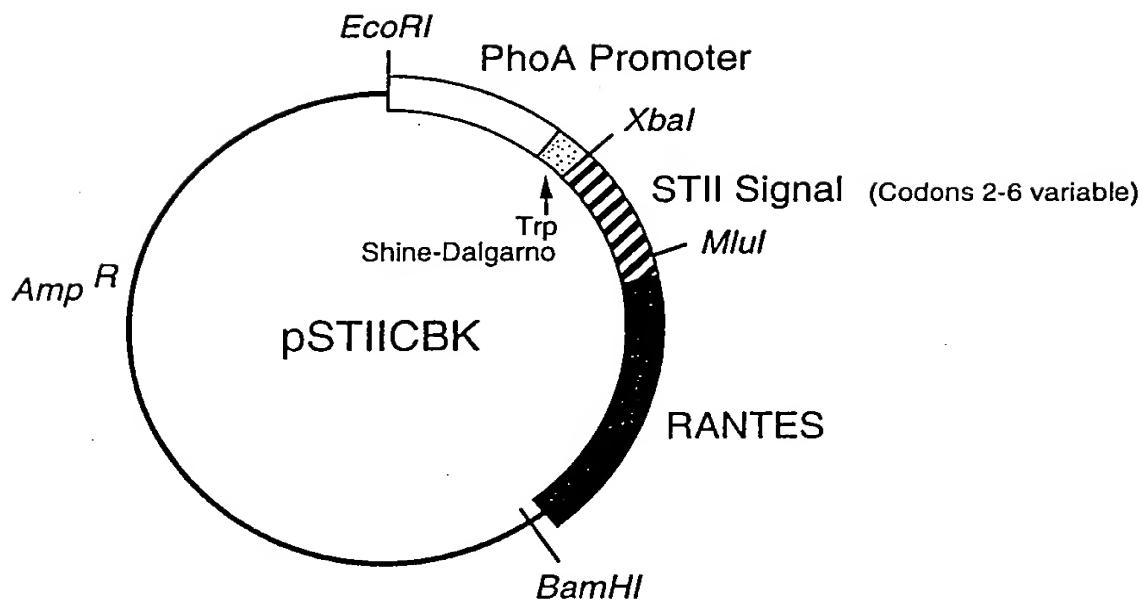
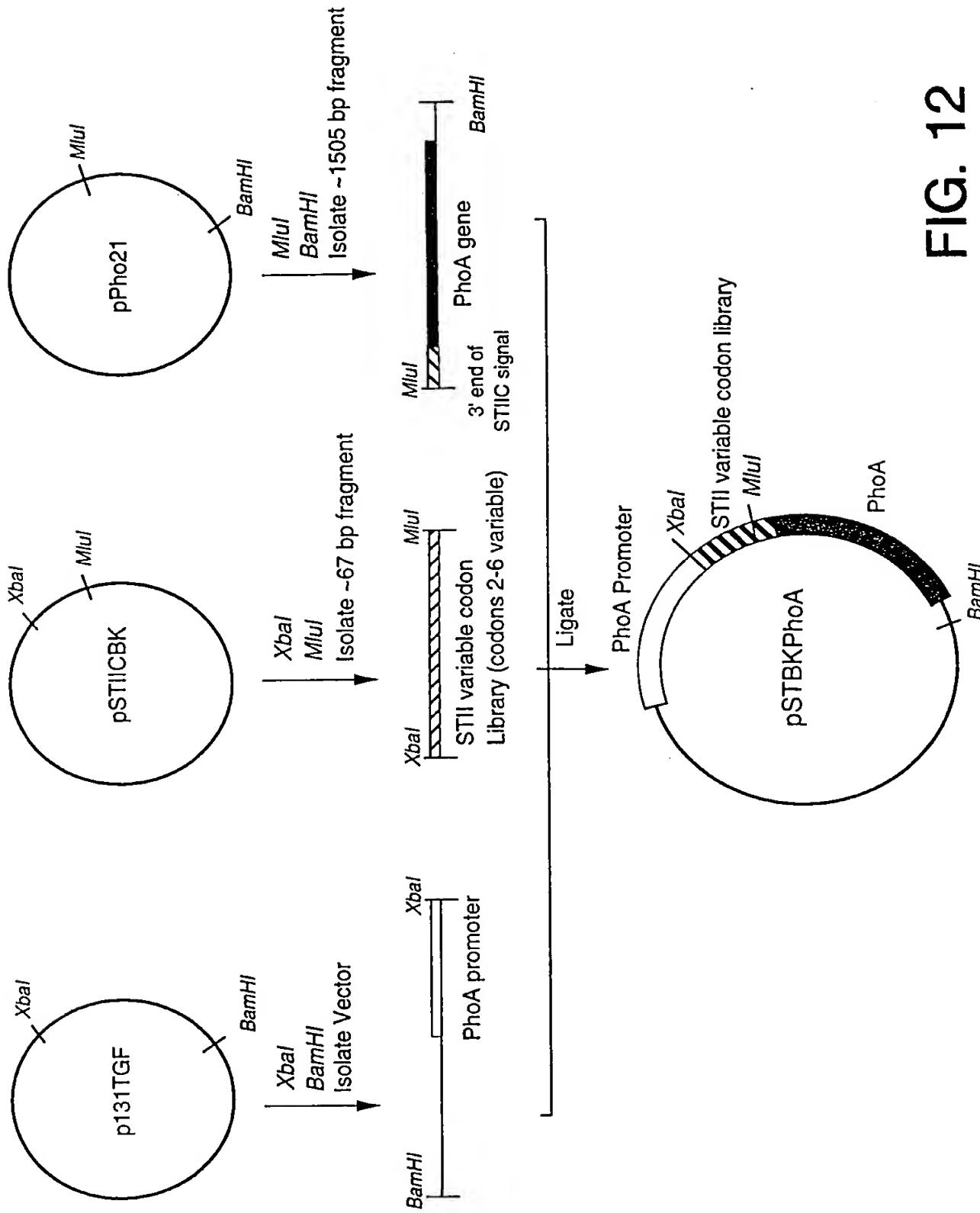


FIG. 11

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APPROVED	O.G. FIG.
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APPROVED	O.G. FIG.
BY	CLASS/SUBCLASS
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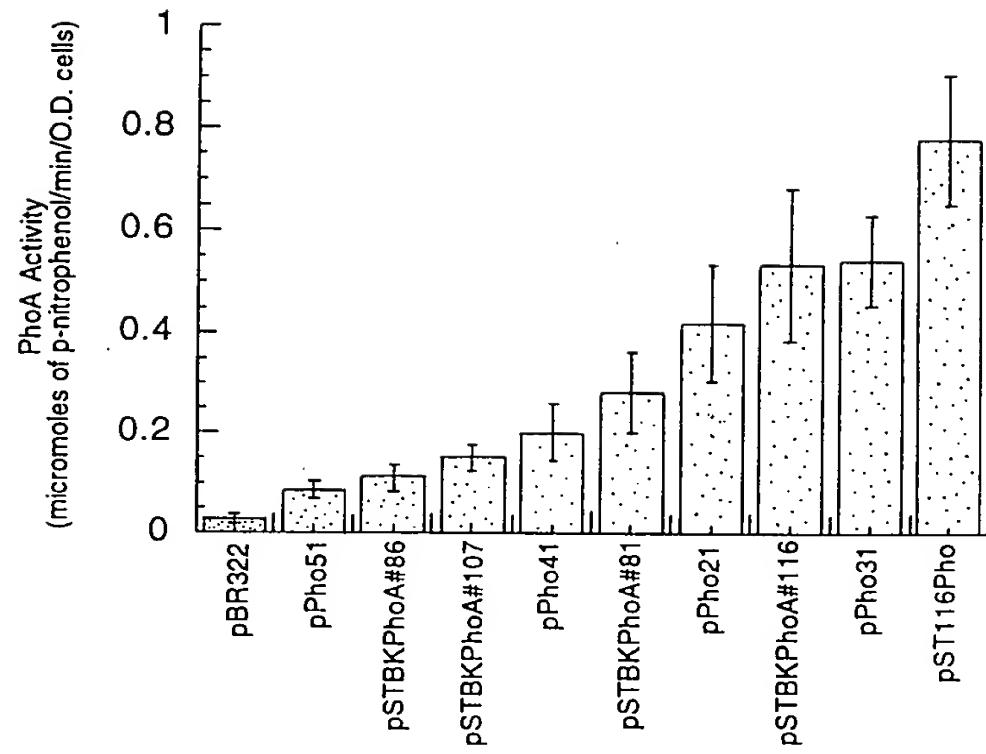


FIG. 13

APPROVED	O.G. FIG.
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pPho31 (Wild type STII + Mu_l site)
 TCTAGAGGTGAGGTATT ATG AAA AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC GTT

pPho21 (STIIC)
 TCTAGAATT ATG AAA AAG AAT ATC GCA TTT CTT GCA TCT ATG TTC GTT

pPho41 (STIIBK#131)
 TCTAGAATT ATG AAG AAC ATT GCG TTC CTA CTT GCC TCT ATG TTT GTC

pPho51 (STIILys - unless otherwise noted this
 sequence is the TIR=1 used in the examples)
 TCTAGAATT ATG AAG AAC ATT ATC GCA TTT CTT GCA TCT ATG TTC GTT

pSTBKPPhoA#116 TCTAGAATT ATG AAA AAC ATC GCA TTT CTT GCA TCT ATG TTC GTT

pSTBKPPhoA#81 TCTAGAATT ATG AAA AAC ATT GCC TTT CTT GCA TCT ATG TTC GTT

pSTBKPPhoA#107 TCTAGAATT ATG AAG AAA AAC ATC GCT TTT CTT GCA TCT ATG TTC GTT

pSTBKPPhoA#86 TCTAGAATT ATG AAA AAG AAC ATA GCG TTT CTT GCA TCT ATG TTC GTT

pSTI16Pho
 TCTAGAGGTGAGGTATT ATG AAA AAC ATC GCA TTT CTT GCA TCT ATG TTC GTT

FIG. 14A

APPROVED	O.G. FIG.
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		<u>TIR RELATIVE STRENGTH</u>
TTT TCT ATT GCT ACA AAY GCG TAT GCM*	(SEQ ID NO:15)	9
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:16)	7
TTT TCT ATA GCT ACA AAC GCG TAT GCM	(SEQ ID NO:17)	3
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:18)	1
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:19)	9
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:20)	4
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:21)	2
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:22)	1
TTT TCT ATT GCT ACA AAC GCG TAT GCM	(SEQ ID NO:23)	13

* The codons for the last four amino acids of this sequence may differ in some of the examples of protein secretion. For example, in the 16F-1, VEGF165 and RANTES secretion plasmids, the sequence is ATGCC TAT GCA. The last codon for the last amino acid in every sequence listed may vary in the examples of protein secretion - GCC and GCA were both used.

FIG. 14B

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APPROVED	O.G. FIG.
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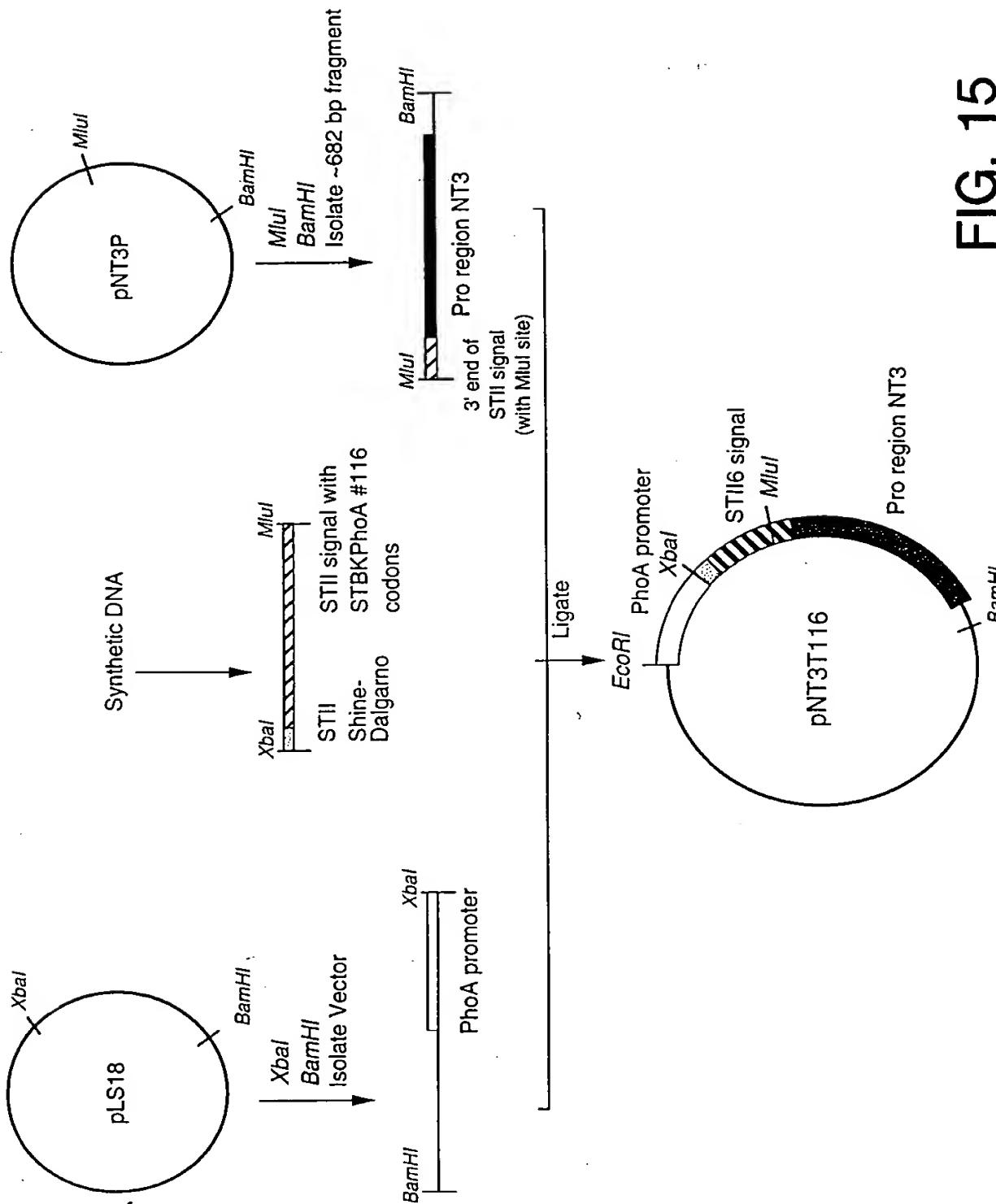


FIG. 15

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APPROVED	O.G.	FIG.
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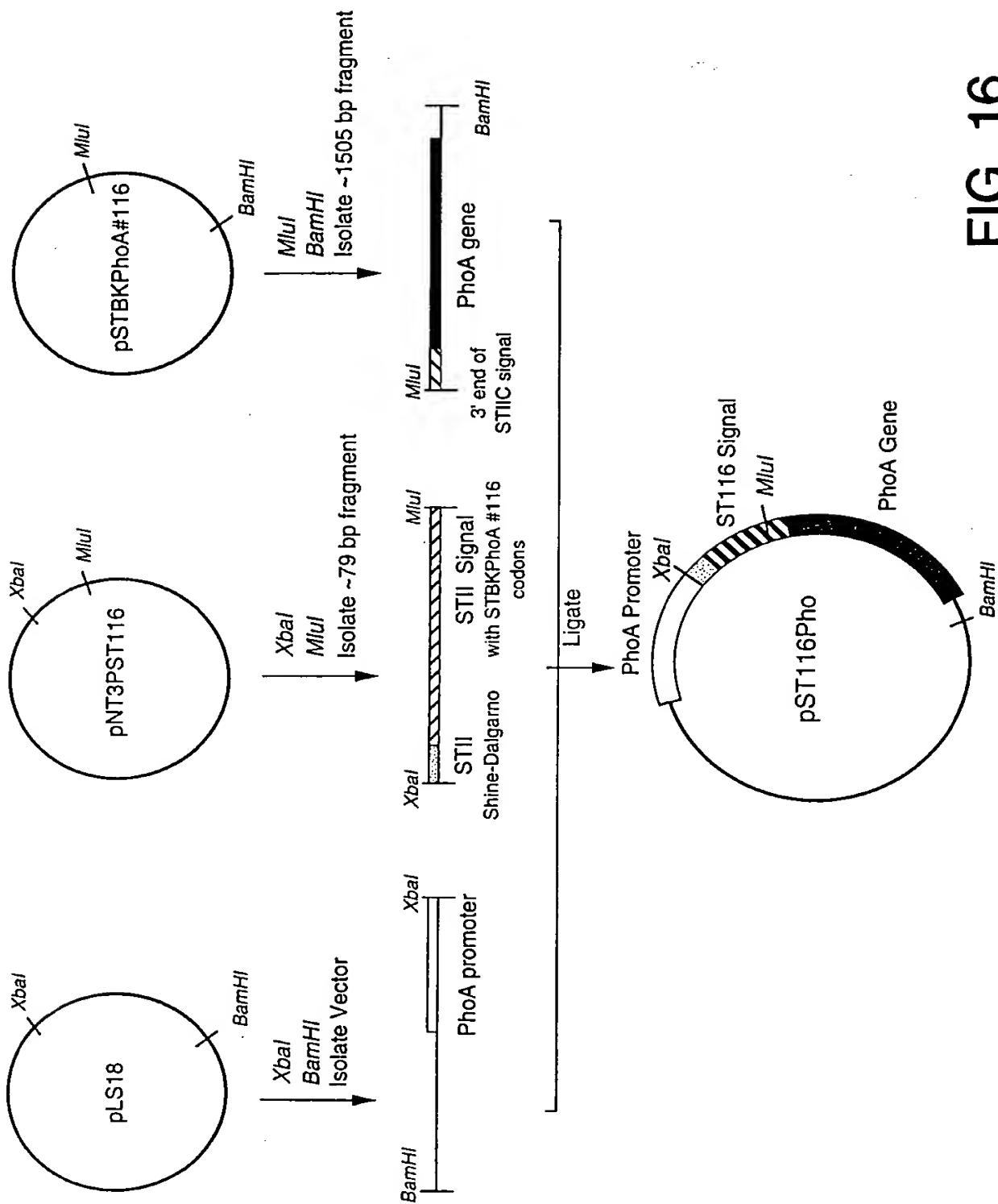
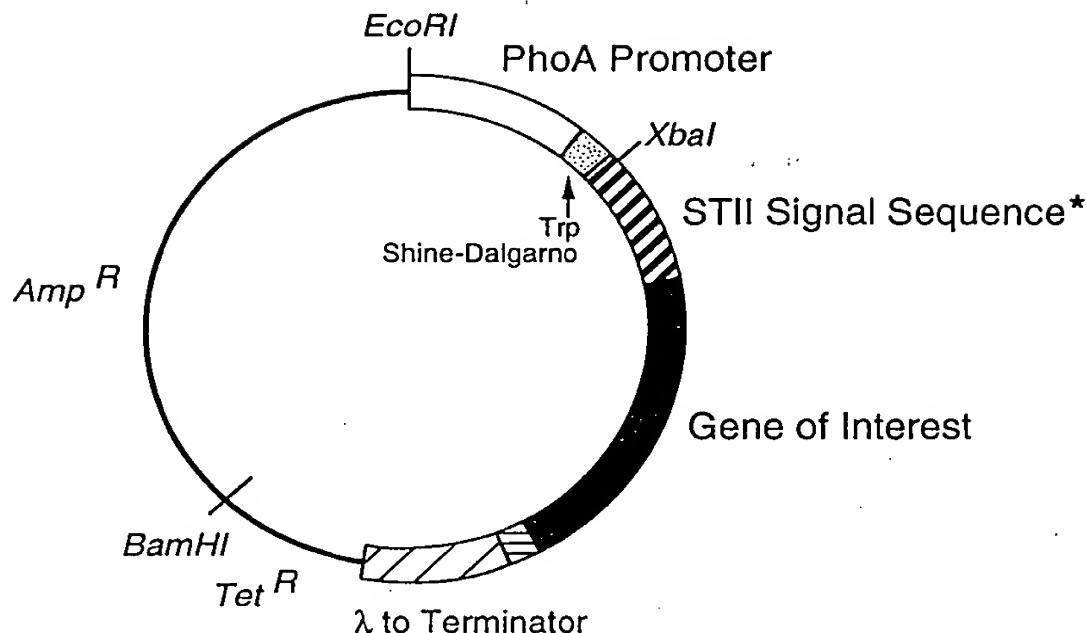


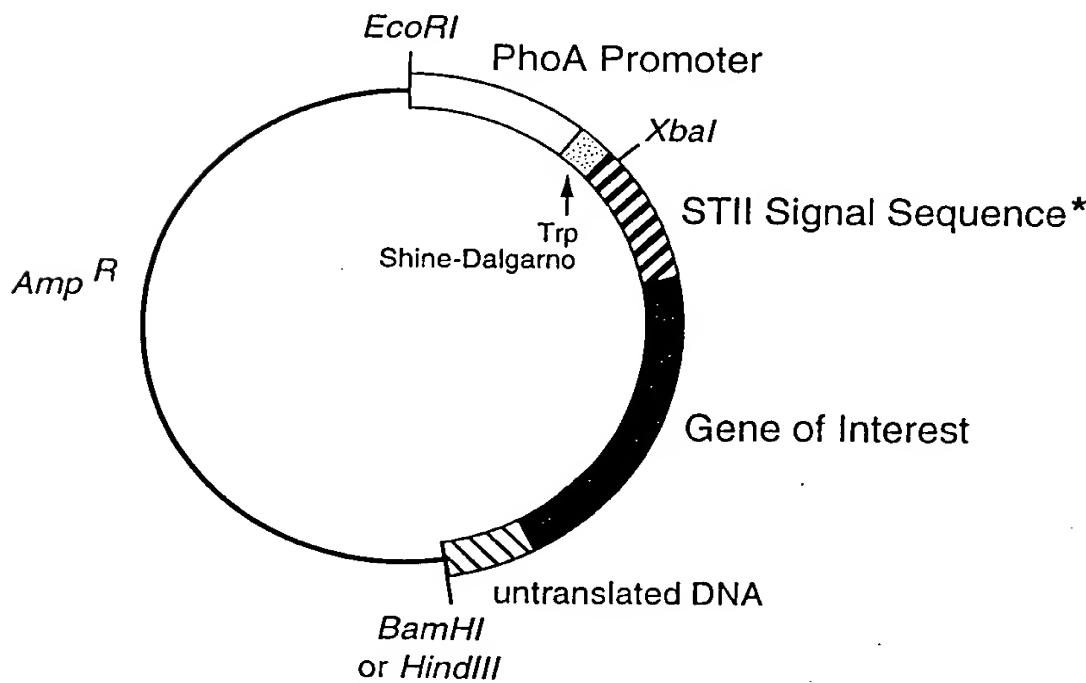
FIG. 16

APPROVED	O.G. FIG.
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* One of the nucleotide sequences listed in Figure 14
 (STII Shine-Dalgarno may also be included).

FIG. 17



* One of the nucleotide sequences listed in Figure 14
 (STII Shine-Dalgarno may also be included).

FIG. 18